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**POSITION DETECTOR**  
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Applicant: HONDA MOTOR CO LTD

## Classification:

- international: G01B7/00; G01D5/12; G01D5/14; G01D5/18; G01B7/00; G01D5/12; (PC1-7); G01B7/00; G01D5/12; G01D5/14; G01D5/18

- European:

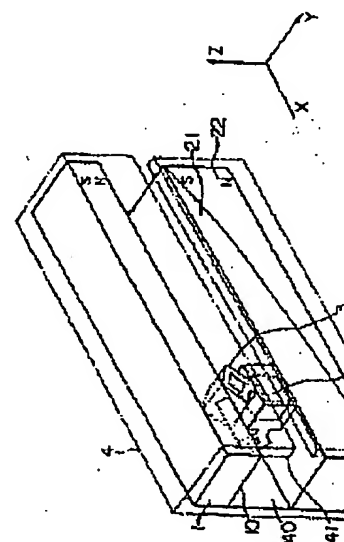
Application number: JP19900142570 19900531

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## Report a

## Abstract of JP4034312

**PURPOSE:** To enable highly accurate and stable detection of a position by moving a moving object with a magnetic detector on to a rail with a magnetic flux density varying in a direction of moving to determine the position of the moving object with increase or decrease in the magnetic flux density detected by the magnetic detector. **CONSTITUTION:** A position detector is made up of a rail constituted of an upper magnet section 1 and a lower magnet section 2 and a moving member 3 having a Hall element 30 for magnetic detection inside being sandwiched therebetween. The magnet section 2 is so arranged that the top surface of a permanent magnet part 22 thereof has a magnetic pole opposite to the magnetic pole of the undersurface 10 of the magnet section 1. It is desired that a thickness of a resin part 21 in a direction Y orthogonal to the direction X of the moving member 3 moves is a function of  $e^{-\alpha x}$  with respect to a moving distance of the moving member 3. With such an arrangement, an output of the element 30 within the member 3 varies linearly against the movement of the member 3. This enables the reading of the output of the element 30 directly as moving distance without any correction.



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